State of California CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI - 1759

FOR

CITY OF SANTA PAULA AND VENTURA REGIONAL SANITATION DISTRICT

(Santa Paula Water Reclamation Facility)

(NPDES NO. CA0054224)

REPORTING REQUIREMENTS

The Discharger shall implement this monitoring program on the effective date of this Order. All monthly monitoring reports shall be submitted by the first day of the second month following each monthly sampling period, addressed to the Regional Board, Attention: Technical Support Unit. The first monitoring report under this Program is due by June 1, 1997, and will cover the monitoring period of April 1997. Weekly effluent analyses shall be performed on different weekdays during each month. Quarterly monitoring shall be performed during the months of February, May, August, and November. Semiannual monitoring shall be performed during the month of August.

The analysis shall specify the USEPA analytical method used and its Method Detection Limit (MDL). For the purpose of reporting compliance with effluent limitations, performance goals, receiving water limitations, analytical data shall be reported with an actual numerical value or "nondetected (ND)" with the MDL indicated for the analytical method used. The maximum allowed MDLs are those published by the USEPA (MDLs for priority pollutants are listed in Attachment 1). The Discharger shall not use a MDL higher than that published by the USEPA unless the Discharger can demonstrate that a practical detection limit is not attainable and obtains approval for a higher MDL from the Executive Officer.

The Discharger shall submit an annual report containing a discussion of the previous year's effluent and receiving water monitoring data, as well as graphical and tabular summaries of the data. This annual report is due by March 1st of the year following data collection.

The Discharger shall submit by August 17, 1997, for Executive approval, a workplan and time schedule for the turbidity study described in the effluent limitation A(6). The final report of the study shall be due by May 1, 1999.

The Discharger shall inform the Regional Board well in advance of any construction activity proposed that can potentially affect compliance with applicable requirements.

11. INFLUENT MONITORING (Footnotes on pages T- 8 to T-9)

Influent monitoring is required to:

- determine compliance with NPDES permit conditions and water quality standards.
- assess treatment plant performance.
- assess the effectiveness of the pretreatment program.

Sampling stations shall be established at each point of inflow to the sewage treatment plant and shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained. The date and time of sampling shall be reported with the analytical values determined.

Samples for influent BOD₅ 20°C and suspended solids shall be obtained on the same day that effluent BOD₅20°C and suspended solids samples are obtained in order to demonstrate percent removal.

The following shall constitute the influent monitoring program:

Constituent	<u>Units</u>	Type of Sample	Minimum Frequency of Analysis
✓ Flow pH✓ Suspended solids✓ BOD₅ (20°C)	mgd	recorder/totalizer	continuous ^[1]
	pH units	grab	daily
	mg/L	24-hour composite	weekly
	mg/L	24-hour composite	weekly

Influent flows estimated from effluent readings are acceptable.

Additionally, all monitoring under the approved pretreatment program, as previously submitted to this Regional Board, shall remain in force.

111. EFFLUENT MONITORING (Footnotes on pages T-8 to T-9)

Effluent monitoring is required to:

- determine compliance with NPDES permit conditions.
- identify operational problems and improve plant performance.
- assess the effectiveness of the pretreatment program.
- provide information on wastewater characteristics and flows for use in interpreting water quality and biological data.

An effluent sampling station shall be established for each point of discharge and shall be located downstream of any in-plant return flows where representative samples of the effluent (after receiving all treatment) may be obtained. Effluent samples may be obtained at a single station provided that station is representative of the effluent quality at all discharge points. Any changes in sampling station locations shall be approved by the Executive Officer.

The following shall constitute the effluent monitoring program:

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Constituent	<u>Unit</u>	Type of Sample	Minimum Frequency of Analysis
Total waste flow Turbidity ^[1] Total residual chlorine Temperature pH Total coliform ^[2]	mgd NTU mg/L %F pH units MPN/100 mL mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg	recorder recorder grab grab grab 24-hour composite	continuous ^[1] continuous ^[1] continuous ^[1] daily daily daily weekly weekly weekly weekly monthly semiannually

Constituent	<u>Unit</u>	Type of <u>Sample</u>	Minimum Frequency of Analysis
Selenium Silver Zinc Nickel Endrin ^[5] Lindane Chlordane Methoxychlor Toxaphene 2,4-D 2,4,5-TP (Silvex) Tetrachloroethylene Carbon tetrachloride Vinyl chloride PCBs ^[7] Remaining EPA priority pollutants (excluding asbestos, A	μg/L μg/L mg/L mg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μ	24-hour composite	semiannually
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IV. RECEIVING WATER MONITORING REQUIREMENTS

(Footnotes on pages T-8 through T-9)

A. Receiving water stations shall be maintained at the following locations:

Station No.	Description
R-1	Peck drain at Converse Road bridge. (This point is located at edge of river bed about half a mile above confluence with low flow river stream).
R-2	Santa Clara river, about 300 feet upstream from confluence with Peck drain flow.
R-3	Santa Clara River, about 300 feet downstream from confluence with Peck drain flow.

To obtain representative samples, at each station, samples may be collected within 50 feet upstream or downstream from the designated point.

B. The following analyses, which constitute the receiving water monitoring program, shall be conducted on grab samples obtained at Stations R-1, R-2, and R-3.

Constituent	<u>Units</u>	Minimum Frequency of Analysis
Temperature pH BOD ₅ (20°C) Dissolved oxygen Chloride Turbidity Residual chlorine Total coliform Settleable solids Nitrate nitrogen ^[8] Nitrite nitrogen ^[8] Ammonia nitrogen ^[8] Organic nitrogen ^[8] Total nitrogen ^[8] Detergents (as MBAS) ^[3] Total phosphate Suspended solids Total dissolved solids Oil and Grease Sulfate Chronic toxicity ^[4] Arsenic Cadmium Chromium Copper Nickel Lead Zinc Chlorinated Pesticides N and P Pesticides BNA	cfs °F pH units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	monthly quarterly annually semi-annually

C. In the event of a spill or bypass of raw or partially treated sewage into Santa Clara River total and fecal coliform analyses shall be made on grab samples collected at all potentially affected downstream receiving water area and at least one unaffected upstream receiving water area. Coliform samples shall be collected on the date of the spill or bypass, if possible, and daily on each of the following four days. In addition to Regional Board notification of the spill or bypass, the Discharger shall notify United Water Conservation District.

City of Santa Paula and Ventura Regional Sanitation District Monitoring and Reporting Program

- At the time of sampling, the following observations shall be made at all the stations and the times of the observations shall be noted:
 - a) Measurement of flow
 - b) Odor of water
 - c) Color of Water
 - d) Occurrence of significant storm runoff (flowing into the river)
 - e) Presence of floating solids (Type)
 - f) Presence of any sludge banks or deposits, grease, oil, foam, or visible solids of waste origin
 - g) Wind conditions
 - h) Presence of any aquatic plant growth, sessile or floating
 - i) Any unusual occurrence
 - E. The time, date, and weather conditions (including air temperature) at the time of sampling shall be reported.
 - F. The color of the effluent shall be contrasted with that of the receiving water and reported descriptively.
 - G. The results of receiving water monitoring and observations shall be submitted with the effluent monitoring reports. A standardized receiving water observation form should be used.

STORM WATER MONITORING AND REPORTING

Upon adoption of this Monitoring and Reporting Program, the Discharger shall file a notice of termination (NOT) with State Board, for the General Storm Water NPDES permit associated with industrial activity, since such requirements have been incorporated into this The Discharger shall implement the attached Storm Water Monitoring and Reporting Program (Attachment T-2).

COMPLIANCE WITH DAILY AVERAGE, INSTANTANEOUS MAXIMUM, AND 30-DAY VI. AVERAGE LIMITS

If the result of any analysis exceeds the 30-day average limit, the frequency of analysis shall be increased to weekly within one week of knowledge of the test result. Α. Weekly testing shall continue for at least 4 consecutive weeks and until compliance with the 30-day average limit is demonstrated, after which the frequency shall revert to as previously designated.

City of Santa Paula and Ventura Regional Sanitation District Monitoring and Reporting Program

If the result of any analysis exceeds the daily average limit, the frequency of analysis shall be increased to daily within one week of knowledge of the test result. Daily testing shall continue for at least 4 consecutive days and until compliance with the daily average or instantaneous maximum limit is demonstrated, after which the frequency shall revert to as previously designated.

HAULING REPORTS

In the event that other wastes (besides sludge) associated with wastewater treatment are transported offsite during the reporting period, the following shall be reported:

1) Type(s) of waste and quantity of each type;

2) Name and either the address or the State registration number for each hauler of wastes used (or the method of transport, if other than hauling); and,

3) Address or specific location of the final point(s) of deposal for each type of waste.

If no wastes are transported offsite during the reporting period, a statement to that effect shall be submitted.

VII. FOOTNOTES TO INFLUENT, EFFLUENT AND RECEIVING WATER MONITORING REQUIREMENTS

Where continuous monitoring of a constituent is required, the following shall be reported:

Total waste flow - Total daily flow and peak daily flow (24-hour basis);

Total chlorine residual - maximum daily value (24-hour basis);

Turbidity - maximum daily value, total amount of time each day that turbidity exceeded five (5) turbidity units, the flow-proportioned average daily value.

- Coliform and turbidity samples shall be obtained at some point in the treatment process at a time when wastewater flow and characteristics are most demanding on the treatment facilities, filtration, and [2] disinfection procedures.
- Methylene blue active substances [3]
- Initial screening shall be conducted using a minimum of three test species with approved test protocols to determine the most sensitive test organism for chronic toxicity testing. The initial screening process [4] shall be conducted for a minimum of three months, but not to exceed five months, to account for potential variability of the effluent/ receiving water. If possible, the test species used during the screening process should include a fish, an invertebrate, and an aquatic plant.

Upon approval of the Executive Officer, and after the initial screening period, chronic toxicity testing may be limited to the most sensitive test species. However, the initial screening process shall be repeated annually, with a minimum of three test species with approved test protocols, to ensure use of the most sensitive species for chronic toxicity testing.

Dilution and control waters for the effluent should be obtained from an unaffected area of the receiving waters. Standard dilution water may be used if the above source exhibits toxicity greater than 1.0 TU_c. The sensitivity of the test organisms to a reference toxicant shall be determined concurrently with each batch of bioassay tests and reported with the test results.

Chronic Toxicity shall be expressed and reported as toxic units, where:

TU_c = 100/NOEC

The No Observable Effect Concentration (NOEC) is expressed as the maximum percent effluent/ receiving water that causes no observable effect on a test organism, as determined by the result of a critical life stage toxicity test.

Except with pnor approval from the Regional Board Executive Officer, ammonia shall not be removed from bioassay samples. The wastewater used for the toxicity test shall be analyzed for ammonia, and the result, along with an interpretation, shall be submitted with the toxicity data. If the test result is greater than the permit limitation, parallel tests or 100% effluent without ammonia removal and 100% effluent with ammonia removed shall be conducted.

[5] By methods specified in "Methods for Measuring the Acute Toxicity of Effluent to Freshwater and Marine Organisms" (March 1985, EPA/600/4-85/013). Submission of bioassay results should include the information noted on pages 45 through 49 of the "Methods" where appropriate. The fathead minnow (Pimephales promelas) shall be used as the test species.

Except with prior approval from the Regional Board Executive Officer, ammonia shall not be removed from bioassay samples. The wastewater used for the toxicity test shall be analyzed for ammonia, and the result, along with an interpretation, shall be submitted with the toxicity data. If the test result is greater than the permit limitation, parallel tests or 100% effluent without ammonia removal and 100% effluent with ammonia removed shall be conducted.

- [6] Endrin shall mean the sum of endrin and endrin aldehyde
- [7] PCBs (polychlorinated biphenyls) shall mean the sum of chlorinated biphenyls whose analytical characteristics resembe those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260.
- [8] Samples for the receiving water nitrogen series (nitrite, nitrate, ammonia-N, and organic nitrogen) shall be obtained at the same time that temperature and pH are recorded in order to calculate unionized ammonia.

Ordered by:

LAWRENCE P. KOLB
Acting Executive Officer

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Date: <u>April 7</u>, 1997

PRIORITY POLLUTANTS

Metals

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

Miscellaneous

Cyanide
Asbestos (only if specifically required)

Pesticides & PCBs

Aldrin Chlordane Dieldrin 4.4'-DDT 4.4'-DDE 4.4'-DDD Alpha-endosulfan Beta-endosulfan Endosulfan sulfate Endrin Endrin aldehyde Heptachlor Heptachlor epoxide Alpha-BHC Beta-BHC Gamma-BHC Delta-BHC Toxaphene PCB 1016 PCB 1221 PCB 1232 PCB 1242

PCB 1248

PCB 1254

PCB 1260

Base/Neutral Extractibles

Acenaphthene ...

Benzidine 1.2.4-trichlorobenzene Hexachlorobenzene Hexachloroethane Bis(2-chloroethyl) ether 2-chloronaphthalene, 1.2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 3.3'-dichlorobenzidine 2.4-dinitrotoluene 2.6-dinitrotoluene 1,2-diphenylhydrazine Fluoranthene 4-chlorophenyl phenyl ether 4-bromophenyl phenyl ether Bis(2-chloroisopropyl) ether Bis(2-chloroethoxy) methane Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene Nitrobenzene N-nitrosodimethylamine N-nitrosodi-n-propylamine N-nitrosodiphenylamine Bis (2-ethylhexyl) phthalate Butyl benzyl phthalate Di-n-butyl phthalate Di-n-octyl phthalate Diethyl phthalate Dimethyl phthalate

Benzo(a) anthraœne

Benzo(b) fluoranthene

Benzo(k) fluoranthene

1.12-benzoperylene

1,2,5,6-dibenzanthracene

Indeno (1,2,3-cd) pyrene

Benzo(a) pyrene

Acenaphthylene

Phenanthrene

Chrysene

Anthracene

Fluorene

Pyrene

TCDD

Acid Extractibles

2.4.6-trichlorophenol
P-chloro-m-cresol
2-chlorophenol
2.4-dichlorophenol
2.4-dimethylphenol
2-nitrophenol
4-nitrophenol
4.6-dinitro-o-cresol
Pentachlorophenol
Phenol

Volatile Organics

Acrolein . Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1.1-dichloroethane 1,1,2-trichloroethane 1,1,2,2-tetrachloroethane Chloroethane Chloroform 1,1-dichloroethylene 1,2-trans-dichloroethylene 1.2-dichloropropane 1,3-dichloropropylene Ethylbenzene Methylene chloride Methyl chloride Methyl bromide Bromoform Bromodichloromethane Dibromochloromethane Tetrachloroethylene Toluene Trichloroethylene Vinyl chloride

2-chloroethyl vinyl ether